LISTING OF THE CLAIMS:

1. (Currently Amended) A method of providing anonymous digital cash, said method comprising:

providing an entity with a secure co-processor;

a user establishing a secure channel to a program running on said coprocessor; and

the user sending a coin to be digitally signed to the coprocessor using any secure digital signature algorithm; and

signing the coin with a non-homomorphic signature to enable the user to use the coin while keeping the identity of the user unknown to the coprocessor.

2. (Original) A method according to Claim 1, further comprising the steps of:

the processor providing a signature to authenticate;

the user using said coin for payment to a merchant; and

the merchant returning the signed coin to the entity for credit to an account of the merchant.

3. (Currently Amended) A method of creating and managing electronic cash, comprising the steps:

a customer communicating to a secure cryptography generator an encryption scheme and a cash amount;

establishing a unit representing the cash amount;

signing the unit with a non-homomorphic signature to enable the customer to use the electronic cash while keeping the identity of the customer unknown to the coprocessor;

using the secure cryptography generator to encrypt the signed unit using the encryption scheme;

storing in a database the encrypted signed unit and a value for the unit; transmitting the encrypted signed unit to the customer; the customer decrypting the encrypted signed unit to obtain the signed unit; and using the signed unit as a payment.

- (Original) A method according to Claim 3, further including the steps of:
 establishing an expiration date for the unit; and
 storing the expiration date in the database.
- 5. (Original) A method according to Claim 3, wherein the signing step includes the step of using the secure cryptography generator to sign the unit.
- 6. (Cancelled).
- 7. (Currently Amended) A system for creating and managing electronic cash, comprising the steps:

a secure cryptography generator, including means for receiving an encryption scheme and a cash amount from a customer;

means for establishing a unit representing the cash amount;

means for signing the unit with a non-homomorphic signature to enable the customer to use the electronic cash while keeping the identity of the customer unknown to the coprocessor;

wherein the secure cryptography generator encrypt the signed unit using the encryption scheme;

a database for storing the encrypted signed unit and a value for the unit;

means for transmitting the encrypted signed unit to the customer; and

means for the customer to decrypt the encrypted signed unit to obtain the signed unit,

wherein the customer is able to use the signed unit as a payment.

- 8. (Original) A system according to Claim 7, further including means for establishing an expiration date for the unit, and wherein the expiration date is stored in the database.
- 9. (Original) A system according to Claim 7, wherein the secure cryptography generator includes means for signing the unit.
- 10. (Cancelled).
- 11. (Currently Amended) A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for creating and managing electronic cash, said method steps comprising:

using a secure cryptography generator to receive from a customer an encryption scheme and a cash amount;

establishing a unit representing the cash amount;

signing the unit with a non-homomorphic signature to enable the customer to use the electronic cash while keeping the identity of the customer unknown to the coprocessor;

using the secure cryptography generator to encrypt the signed unit using the encryption scheme;

storing in a database the encrypted signed unit and a value for the unit; transmitting the encrypted signed unit to the customer; decrypting the encrypted signed unit to obtain the signed unit; and using the signed unit as a payment.

12. (Original) A program storage device according to Claim 11, wherein said method steps further include the steps of:

establishing an expiration date for the unit; and storing the expiration date in the database.

- 13. (Original) A program storage device according to Claim 11, wherein the signing step includes the step of using the secure cryptography generator to sign the unit.
- 14. (Cancelled).
- 15. (New) A method according to Claim 2, wherein:

the encryption scheme has a public key and a private key;

the communicating step includes the step of the customer sending to the generator the public key of the encryption scheme; and

the step of using the secure cryptography generator includes the step of using the public key to encrypt the signature on the unit.

16. (New) A method according to Claim 15, wherein:

the signing step includes the step of using a non-homomorphic signature scheme to sign the unit;

the non-homomorphic signature scheme includes a private key and a public key; and the step of using the non-homomorphic signature scheme includes the step of using the private key of the non-homomorphic signature scheme to sign the unit.